

PREFACE

The *International Conference Zaragoza-Pau on Mathematics and its Applications* was organized by the *Departamento de Matemática Aplicada*, the *Departamento de Métodos Estadísticos* and the *Departamento de Matemáticas*, all of them from the *Universidad de Zaragoza* (Spain), and the *Laboratoire de Mathématiques et de leurs Applications*, from the *Université de Pau et des Pays de l'Adour* (France). This conference has been held every two years since 1989. The aim of this conference is to present recent advances in Applied Mathematics, Statistics and Pure Mathematics, putting special emphasis on subjects linked to petroleum engineering and environmental problems.

The Fourteenth Conference took place in Jaca (Spain) from 12nd to 15th September 2016. The official opening ceremony was graced by the presence of the Chancellor of the University of Zaragoza, Rector Mgfco. D. José Antonio Mayoral Murillo, and the Chancellor of the University of Pau, M. le Président Mohamed Amara. During those four days, 99 mathematicians, coming from different universities, research institutes or the industrial sector, attended 14 plenary lectures, 62 contributed talks and a poster session with 4 posters. We note that in this edition there were 11 mini-symposia, two of them co-organized by colleagues from the *Universidad de Zaragoza* and the *Université de Pau et des Pays de l'Adour*.

The principal talks were about theoretical and numerical analysis of deterministic models described by partial differential equations, statistics and stochastics processes, surface approximation and image analysis. At the same time, there was also a discussion session and problems in Algebra and Geometry. These proceedings contain 19 refereed research papers based on the corresponding contributions.

We would like to thank the following institutions for their regular financial and material support in our cooperation programmes: *Université de Pau et des Pays de l'Adour*, *Universidad de Zaragoza*, *Conseil Régional d'Aquitaine*, *Gobierno de Aragón*, *Conseil Régional de Midi-Pyrénées*, *Gobierno de Navarra*, and *Pyrenean Work Community*. Thanks are also due to the *Centre National de la Recherche Scientifique (CNRS)*, *Common Funds Aquitaine-Aragón* and *European Social Fund (ESF)*, the *Centre de Recherche CEREMATH de l'Université de Toulouse I*, the *Communauté d'Agglomération Pau-Pyrénées* and the *Fédération IPRA of Pau (Institut Pluridisciplinaire de Recherche Appliquée)* for the grants specially allotted at the time of the Fourteenth Conference.

We wish to express our gratitude to Alberto Abad (U. Zaragoza), Enrique Artal (U. Zaragoza), Carmelo Clavero (U. Zaragoza), Jacky Cresson (U. Pau), Marc Dambrine (U. Pau), Jacqueline Fleckinger (U. Toulouse I), Vincent Florens (U. Pau), Jacques Giacomoni (U. Pau), José Luis Gracia (U. Zaragoza), Pedro Jodrá (U. Zaragoza), Sophie Mercier (U. Pau), Pedro J. Miana (U. Zaragoza), Philippe Poncet (U. Pau), Carmen Sangüesa (U. Zaragoza), Peter Takac (U. Rostock), Guy Vallet (U. Pau), María Pilar Velasco (U. Zaragoza), who, together with us, formed the Scientific Committee. We would like also to express our special thanks to Juan José Torrens (U. Pública de Navarra), for his invaluable help in editing these

proceedings. We are also indebted to all the others who helped in the organization of the Conference, in particular, Fernando Javier Abad, Beatriz Malo Polo and Marta Gómez.

We finally acknowledge the assistance provided for the realization of the proceedings by the Instituto Universitario de Matemáticas y Aplicaciones, contained in the *Monografías Matemáticas García de Galdeano*, and the Servicio de Publicaciones of the University of Zaragoza, as well as the kind cooperation of the referees.

The next Conference Zaragoza-Pau will be held in Jaca from 10th to 12nd September 2018. All of you are cordially invited to participate in this event.

Pau and Zaragoza, January, 2018

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